DATE 20/8/1959 sh. 1 of 1 COMPILED BY

TMC

SPECIFICATION NO. S

SOL

- 10025

TITLE:

PRODUCTION TEST OF TR-OOL TRANSFORMER

APPROVED

PURPOSE:

The purpose of this specification is to establish a test procedure for the production testing of the TR-001 transformer.

MATERIALS REQUIRED: Test signal generator operating at 2,8, and 32 mc. having an adjustable output of 1 volt.

Special jig for transformer testing which allows simple, low loss connections for proper termination.

Vacuum tube voltmeter with R.F. probe.

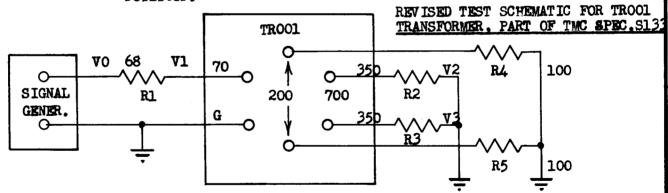
Voltage Data Sheets.

PROCEDURE:

The test of the TR-001 transformer consists of inserting a seri s of R.F. frequencies from a 70 ohm source to the 70 ohm output taps of the transformer. Impedance transformation is to be verified by a number of voltage readings taken when the input impedance is terminated in 200 and 700 ohms, both of which are balanced to ground.

The test may be considered to be divided into two parts. Th first consists in terminating the 700 ohm impedance and r cording the voltages. The second consists in terminating the 200 ohm impedance and recording the voltages.

Connect the test equipment as shown in the diag. below. Th proper termination is selected by clipping on the applicabl resistor.



NOTE, THAT BOTH 200 OHM AND 700 OHM OUTPUTS ARE CENTER TAPPED TO GROUND.

R1 = 68 ohm NR 1% R2 = 350 ohm NR 1%R3 = 350 ohm NR 1%

R4 = 100 ohm NR 1%

R5 = 100 ohm NR 1%

Freq.	700 ohm Termination				200 ohm Termination			
	VO	V1	٧2	٧3	AO	٧l	74	₹5
2.0	1.0	.45	.60	.60	1.0	.45	.35	.34
8.0	1.0	.50	.70	.70	1.0	.50	.39	.40
32.0	1.0	.53	.74	.83	1.0	.55	-45	.48

TOLERANCES SHALL BE + 0.1 VOLT - V1 SHALL BE SET TO THE SAME VALUE AS V1 IN ABOVE CHART.